

Joint Legislative Oversight Committee on Information Technology

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History

1946: Veterans' Center of
UNC Chapel Hill

1949: Charlotte College Founded

1961: Move to current location

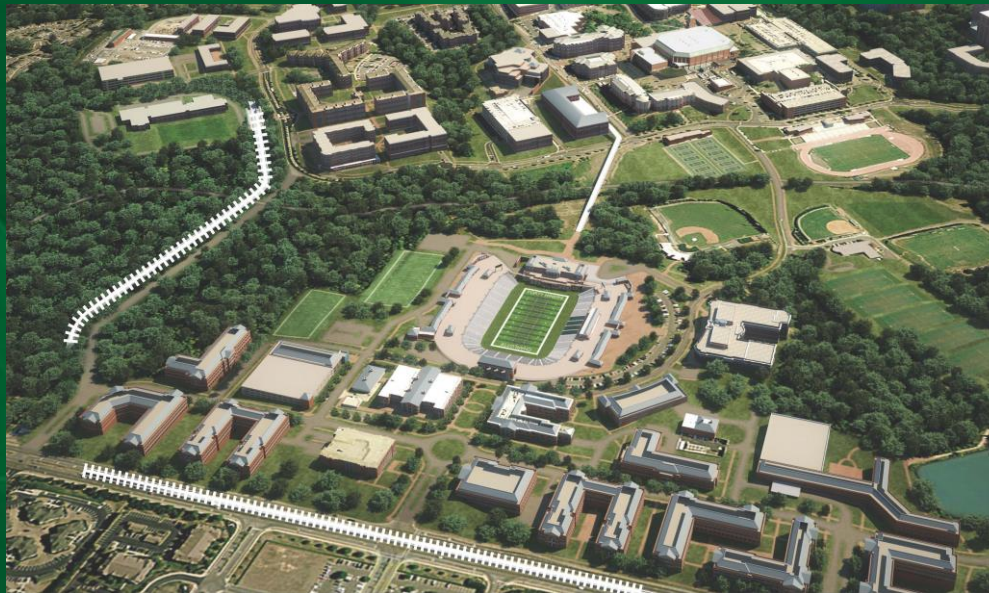
1965: Became part of UNC System



UNC CHARLOTTE

UNC Charlotte Today

- 26,571 students
- 80 Bachelor's, 63 Master's, 21 Doctoral Programs
- 100,000 + living alumni



Growth

Bigger

- Responsive to the Charlotte region's growth
- 2013 enrollment **26,571**
- Freshman 2013 applications **14,414**, up 65% since 2005
- 17,000 applications for Fall 2014 freshman class
- Total applications so far up 11% from 2013



Growth

Better

- Most talented freshmen in UNC Charlotte history
- Prestigious Levine Scholars program will graduate its first cohort this year
 - 2100 applications, 1500 last year, for only 15 spots



EPIC



- Founded by industry
- \$76 million in state funding for construction, \$5 million operating
- \$5 million federal grants
- \$17 million from industry



PORTAL

- Industry partnerships
- Ventureprise
- 45 new companies within the region = 280 new jobs, will create 2,000 jobs over next decade
- SCIF for classified research



Data Science & Business Analytics Initiative

A unique public-private, industry-academic partnership to establish the region and the State as a national hub for data science and business analytics

Top academic initiative at UNC Charlotte

For economic development, business investment, innovation and high-end job creation



Big Data

15 petabytes (10^{15}) of data generated every single day

8 times more information than all of the US libraries COMBINED!

90% of all stored data was generated in the last two years

Total amount of data expected to double every two years

It's not your father's data

Not just numbers and spreadsheets, but

Texts, emails, audio, video, tweets, sensors, social media, etc.

80% of all data is “unstructured”

It's a non-stop tsunami



Why these Data Matter

The data contains information about EVERY aspect of business for EVERY industry

Banking & financial services, retail, manufacturing, energy, healthcare, ...

Supply chain, marketing, sales, reporting, CRM, risk management, investment, compliance, ...

Unlocking the information and insights contained in the data means a huge competitive advantage

Those who cannot will lose out!



Jobs, Jobs, Jobs!

McKinsey (May 2011)

US will have a deficit of close 200,000 professionals with deep analytical skills by 2018

Need to retrain 1.5 million data-savvy managers who understand the value of data and know the right questions to ask

...

Gartner (October 2012)

1.9 million Big Data jobs will be created in the US by 2015

Only 1/3 of these jobs will be filled due to the lack of trained talents

“Education is failing us by not producing enough people”

Each Big Data job will create 3 additional jobs



Big Data - Big Opportunities for NC

The race for Big Data investments is on across the country

Business investments and jobs go where

There are data science and business analytics talent

There is a strong ecosystem and cluster for innovation

Opportunity for the State of North Carolina

Business competitiveness

Retain and attract new business investments (it's not if, but where)

Great opportunity for start-ups

All translate into new jobs!



Data Science & Business Analytics Initiative @ UNC Charlotte

Strategic vision for maximum impact

Integrate “Science of Data” with “Business of Data”

Partnership at core

University-wide undertaking led by the College of Computing and Informatics and the Belk College of Business

Driven by industry-university partnership

Three pillars of DSBA

Industry focused degree programs to train the next generation talents

Large-scale executive/professional training to keep North Carolina at the cutting edge

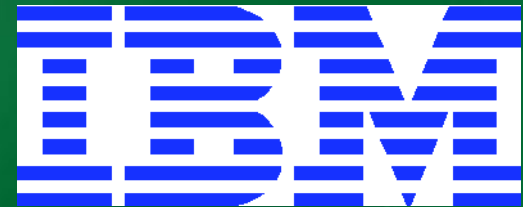
Industry-university-government consortium integrating university research and business innovation



Belk and Big Data



Industry Engagement



Make North Carolina a Hub for Big Data Talent & jobs

**New Professional Science Master's (PSM) degree in Data
Science and Business Analytics (DSBA) (Fall 2014)**

New DSBA Graduate Certificates (Fall 2013)

New Health Informatics PSM & Graduate Certificates (Fall 2012)

Data science and analytics curriculum for undergrads (ongoing)

New Executive Education programs on DSBA

**Projected 400 enrollments and annual production of 250
advanced talents at graduate level**

100's of industry executives/professionals trained annually

**Data science and analytics curriculum benefits over 5000
students**



Why UNC Charlotte?

All key industries in the greater Charlotte region depend on data science and business analytics

Banking/financial services, retail, healthcare, energy, manufacturing, logistics, professional services...

DSBA requires close engagements and collaborations with industry

Charlotte region, as major center of population and economy of the State, has the need and market for data science and analytics

